Werk

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Jahr: 1978

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(6) and from the addition of (25) and (26) we get that the form $L_X\omega$ is semibase on TM iff

$$f_i \frac{\partial a^i}{\partial y^j} = 0 .$$

This is possible for all f_i iff a^i are functions of x only, i.e. if the vector field X on TM is projectable, q.e.d.

Literature

[1] *Godbillon C.:* Géométrie différentielle et mécanique analytique (Russian translation), Mir, Moscow 1973.
[2] *Dekrét A.:* On bilinear structures on differentiable manifolds, to apear.

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